

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40153

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B23Q 3/00; B29C 33/46; B41B 11/54; B41B 11/60; B29C 35/00

US CL : 29/464,466-469; 249/141,160,164; 264/376

According to International Patent Classification (IPC) or : .h national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 29/464,466-469; 249/141,160,164; 264/326

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US4,691,431 A(Hayata) 08 September 1987 (08.09.1987), See entire document.	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

04 May 2004 (04.05.2004)

Date of mailing of the international search report

21 MAY 2004

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